

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Babak Fakharpour

GENERAL INFORMATION:

Name:	Modern Welding Company of KY Inc.-Madisonville
Address:	HWY 41-A North and Cemetery Rd. Madisonville, KY 42431
Date application received:	12/12/00
SIC/Source description:	3441
EIS #:	021-107-00138
Application log number:	53409
Permit number:	F-02-015

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input checked="" type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM10	0.187	90.00
TSP	0.183	90.00
SO <sub>2</sub>	0	0
NO <sub>x</sub>	0	0
CO	0	0
VOC	3.968	90.00
LEAD	0	0
HAP >= 10 tpy (by CAS)	2.477	22.50
Nickel	1.2E-07	4.9E-07
Manganese	0.00025	0.00106
Ethyl Benzene	0.0424	1.429
Xylene	1.652	9.0
Toluene	0.0810	2.730
Methyl Ethyl Ketone	0.686	9.0
Methyl Isobutyl Ketone	0.003	0.1
Hexamethylene Diisocyanate	0.011	0.376
Chromium	1.5E-06	6.1E-06

SOURCE PROCESS DESCRIPTION:

Modern Welding Company of KY, Inc.-Madisonville does various welding, grit blasting, and painting operations such as conveyors, underground steel roof support arches, and ventilation overcasts. These operations are comprised of various welding units, blasting machines, and paint booths( spray paint filtering system with efficiency of 99.9%). The blasting operation control equipment is a baghouse with efficiency of 99.8%. The source has requested to become a conditional major based on their potential to emit at least 10 tons/year of a single HAP and 25 tons/year of combined HAPS.

EMISSION AND OPERATING CAPS DESCRIPTION:

To meet 59:010 allowable, the control equipment must be in operation and the usage rate of materials used in affected facilities shall not exceed the emission limitations.

OPERATIONAL FLEXIBILITY:

None